

### **ABSTRACT OF THE DISCLOSURE**

A high-capacity x-ray tube particularly for use in medical technology in CT apparatuses, has a vacuum housing containing a cathode and a rotatably mounted anode. The anode plate of the anode is connected by a solder connection to the one end of a load-bearing part, the other end of which is attached to the bearing shaft of a drive for placing the anode in rotation. The mechanical strength of the connection location between the anode plate and the load-bearing part is improved by the connection being formed by a positive fit, designed such that the connection surfaces are subjected substantially only to compression given rotation of the anode.

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